

**IN THE CLAIMS:**

*The version of the claims replaces and supercedes all prior versions of the claims.*

1. (Currently Amended) A method of calibrating an antenna and receiver system having multiple channels, each channel comprising an antenna, feed cable and associated receiver components, the method comprising the steps of:

- (i) applying a wideband calibration signal to each antenna feed, the wideband calibration signal having similar characteristics to an operational signal;
- (ii) measuring a correlation response across a plurality of said channels;
- (iii) deriving an estimate of signal transfer response for each of said plurality of channels based on the correlation response; and
- (iv) applying compensation factors for each of said plurality of channels derived from the estimate of signal transfer response,

wherein said plurality of channels comprise all but a selected one of said multiple channels and wherein, at step (ii), the correlation response is measured with reference to said selected one channel.

2. Cancelled

3. Cancelled

4. (Currently Amended) [[A]] The method according to Claim 1, wherein said wideband calibration signal comprises a pseudo-random binary sequence modulated according to a modulation scheme providing similar modulation and bandwidth characteristics to those of the operational signal.

5. (Currently Amended) [[A]] The according to [[claim]] Claim 1, wherein, at step (iii), deriving said estimate of signal transfer response comprises determining the delay through the respective channel.

6. (Currently Amended) [[A]] The according to [[claim]] Claim 1, wherein, at step (iii), deriving said estimate of signal transfer response further comprises deriving phase characteristics of the respective channel.

7. (Currently Amended) [[A]] The according to [[claim]] Claim 1, wherein, at step (iii), deriving said estimate of signal transfer response further comprises deriving amplitude characteristics of the respective channel.

8. (Currently Amended) [[A]] The according to [[claim]] Claim 1, further comprising the step of:

(v) repeating steps (i) to (iv) to compensate for changes in signal transfer response over one or more of said plurality of channels.